

# UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office

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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTO	R	ATTORNEY DOCKET NO. ✓	
09/176.	315 10	0/22/98	MAEDA		S	0057-2362-2Y
022850			MM92/0605	7	EXA	MINER
	CCLELLAND	T C	CRANE, S			
FOURTH	T. A. L. T	ART UN	IT	PAPER NUMBER		
1755 JEFFERSON DAVIS HIGHWAY ARLINGTON VA 22202				2	811	
				DATE MAILE	ED:	06/05/01

Please find below and/or attached an Office communication concerning this application or proceeding.

**Commissioner of Patents and Trademarks** 

	Application No.	Applicant(s)					
Office Action Summans	09/176,315	MAEDA ET AL.					
Office Action Summary	Examiner	Art Unit					
	Sara W. Crane	2811					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a replication in the specified above, the maximum statutory period.  - Failure to reply within the set or extended period for reply will, by statut.  - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).  Status		nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C.§ 133).					
1) Responsive to communication(s) filed on 20	March 2001 .						
2a)⊠ This action is <b>FINAL</b> . 2b)□ T	his action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ Claim(s) <u>1-20</u> is/are pending in the application.							
4a) Of the above claim(s) 17 and 20 is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-5 and 18</u> is/are rejected.							
7)⊠ Claim(s) <u>6-16 and 19</u> is/are objected to.							
8) Claims are subject to restriction and/or election requirement.							
Application Papers							
9) The specification is objected to by the Examin	ner.						
10) The drawing(s) filed on is/are objected	10) The drawing(s) filed on is/are objected to by the Examiner.						
11) The proposed drawing correction filed on is: a) □ approved b) □ disapproved.							
12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. § 119							
13) Acknowledgment is made of a claim for foreig	gn priority under 35 U.S.C. § 119(a	)-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
<ul> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).							
-							
Attachment(s)							
15) Notice of References Cited (PTO-892)	· · · · · · · · · · · · · · · · · · ·	ry (PTO-413) Paper No(s)					
<ul> <li>16) Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>17) Information Disclosure Statement(s) (PTO-1449) Paper No(s</li> </ul>	· <b>=</b>	I Patent Application (PTO-152)					

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### **DETAILED ACTION**

## Allowable Subject Matter

Claims 6-16 and 19 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

## Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1-5 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Iwamatsu et al. (High-Speed 0.5  $\mu m$  . . .) in view of Agari (JP 6-224302) and Chen et al.

See reasons of record in the Office action of 20 December 2000.

### Conclusion

Applicant argues that the Chen teaching refers to an upper wiring line. Chen et al. states at column 7, lines 29-33, "With appropriate doping concentration in recessed region 20, the RC time constant in the body link or recessed region 20 from a respective channel to substrate contact 39 can be as short as or less than 1 nsec." It is clear that the recessed region or body link is addressed, because this is exactly what the sentence says. (Recessed region 20 is not an upper wiring line, as can be determined from the cover figure of Chen et al.) Applicant argues also that recessed region 20 "is not concerned" with region 32 of the Chen device. Recessed region 20 is in direct contact with region 32, as can be seen from the cover figure, and provides the current

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path from region 32 to substrate contact 39, as shown in Chen figure 3. Applicant argues that the RC time constant of concern to Chen et al. may not derive from the capacitance of the MOS transistor and the resistance of the transmission path. There do not appear to be any other sources for resistance or capacitance in the Chen device, however.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to S. Crane, whose telephone number is (703) 308-4894.

The fax phone number for this Group is (703) 308-7722.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist, whose telephone number is (703) 308-0956.

Sara W. Crane Primary Examiner

Sora W Grane

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